

CLAIMS

What is claimed is:

- 1 1. A method comprising:
2 concatenating data from a plurality of fields of a requested page into a
3 string;
4 encrypting the string;
5 serving to a user node, a web page including a form corresponding to
6 the requested page with the plurality of blank fields and the encrypted string.
- 1 2. The method of Claim 1 further comprising:
2 appending a digital signature to the string prior to encryption.
- 1 3. The method of Claim 1 further comprising:
2 inserting the string and a script into a defined portion of the web page
3 to be served.
- 1 4. The method of Claim 3 wherein the defined portion is a Java script
2 section of the web page.
- 1 5. The method of Claim 1 further comprising:
2 serving a script within the web page, the script to decrypt the string and
3 apportion the string to the blank fields.
- 1 6. The method of Claim 1 further comprising:
2 serving a security applet to the user node; and

3 receiving login data from the user node encrypted by the security
4 applet.

1 7. The method of Claim 6 wherein the login data forms a basis for a key
2 used to encrypt the string.

1 8. The method of Claim 6 wherein the security applet is a Java applet to
2 perform decryption of the string subsequently sent using a key word from the login
3 data.

1 9. The method of Claim 6 further comprising:
2 comparing the login data to a valid login data to identify if the user is
3 valid; and
4 denying access if the user is not valid.

1 10. A method comprising:
2 accepting a frame having a resident security applet;
3 receiving a subframe including a form with blank fields and an
4 encrypted string;
5 decrypting the string with the security applet; and
6 distributing a plurality of portions of the decrypted string to a plurality
7 of fields in the form.

1 11. The method of claim 10 wherein distributing comprises:
2 parsing the string delimited by embedded length and data type.

1 12. The method of claim 10 further comprising:

2 accepting user modification of a field in the form;
3 encrypting a string using the security applet, the string including at
4 least a content of the field modified; and
5 transmitting the string to a remote node.

1 13. The method of claim 10 further comprising:
2 deriving a key from login data supplied by a user.

1 14. The method of claim 12 wherein the encryption key is based on login
2 data received from a user.

1 15. The method of claim 10 further comprising:
2 generating a login window within the frame;
3 receiving login data from a user; and
4 receiving the login data in the security applet.

1 16. A computer readable storage media containing executable computer
2 program instructions which when executed cause a digital processing system to
3 perform a method comprising:
4 concatenating data from a plurality of fields of a requested page into a
5 string;
6 encrypting the string;
7 serving to a user node, a web page including a form corresponding to
8 the requested page with the plurality of blank fields and the encrypted string.

1 17. The computer readable storage media of claim 16 which when executed
2 cause a digital processing system to perform a method further comprising:
3 appending a digital signature to the string prior to encryption.

1 18. The computer readable storage media of claim 16 which when executed
2 cause a digital processing system to perform a method further comprising:
3 inserting the string and a script into a defined portion of the web page
4 to be served.

1 19. The computer readable storage media of claim 18 which when executed
2 cause a digital processing system to perform a method further comprising:
3 the defined portion is a Java script section of the web page.

1 20. The computer readable storage media of claim 16 which when executed
2 cause a digital processing system to perform a method further comprising:
3 serving a script within the web page, the script to decrypt the string and
4 apportion the string to the blank fields.

1 21. The computer readable storage media of claim 16 which when executed
2 cause a digital processing system to perform a method further comprising:
3 serving a security applet to the user node; and
4 receiving login data from the user node encrypted by the security
5 applet.

1 22. The computer readable storage media of claim 21 the login data forms a
2 basis for a key used to encrypt the string.

1 23. The computer readable storage media of claim 21 wherein the security
2 applet is a Java applet to perform decryption of the string subsequently sent using a
3 key word from the login data.

1 24. The computer readable storage media of claim 21 which when executed
2 cause a digital processing system to perform a method further comprising:
3 comparing the login data to a valid login data to identify if the user is
4 valid; and
5 denying access if the user is not valid.

1 25. A computer readable storage media containing executable computer
2 program instructions which when executed cause a digital processing system to
3 perform a method comprising:
4 concatenating data from a plurality of fields of a requested page into a
5 string;
6 encrypting the string;
7 serving to a user node, a web page including a form corresponding to
8 the requested page with the plurality of blank fields and the encrypted string.

1 26. The computer readable storage media of claim 25 which when executed
2 cause a digital processing system to perform a method further comprising:
3 appending a digital signature to the string prior to encryption.

1 27. The computer readable storage media of claim 25 which when executed
2 cause a digital processing system to perform a method further comprising:

3 inserting the string and a script into a defined portion of the web page
4 to be served.

1 28. The computer readable storage media of claim 27 wherein the defined
2 portion is a Java script section of the web page.

1 29. The computer readable storage media of claim 25 which when executed
2 cause a digital processing system to perform a method further comprising:

3 serving a script within the web page, the script to decrypt the string and
4 apportion the string to the blank fields.

1 30. The computer readable storage media of claim 25 which when executed
2 cause a digital processing system to perform a method further comprising:

3 serving a security applet to the user node; and

4 receiving login data from the user node encrypted by the security
5 applet.